



July 2, 2010

Pete Baxter
Department of Education
229 State House
Indianapolis, IN 46204-2798

Dear Pete Baxter,

Enclosed you will find information on recall 10V-183/10V-184. This recall involves certain HDX school and non school model buses manufactured between November 15, 2007 and June 15, 2009. The defect involves the Bergstrom heater coolant flow valve actuator o-ring. **Customers involved will be notified directly by Thomas.** Customers can contact their dealers to arrange for repairs to be made. After repairs are completed, they will be instructed to complete a postcard verifying that the repair is complete and return it to Thomas.

A printout is enclosed if there are any units in your area involved in this recall. This printout shows the customer (s) name, address, and the Thomas body/VIN number (s) of the unit (s) involved. If there is no printout enclosed, our records indicate that you do not have vehicles in your area involved.

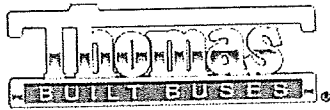
If you have any questions you can contact me at tracy.sauerbrey@thomasbus.com

Sincerely,

A handwritten signature in cursive script that reads "Tracy Sauerbrey".

Tracy Sauerbrey
Warranty

Enclosure



RECALL #10V-183, 10V-184

REPAIR PROCEDURE

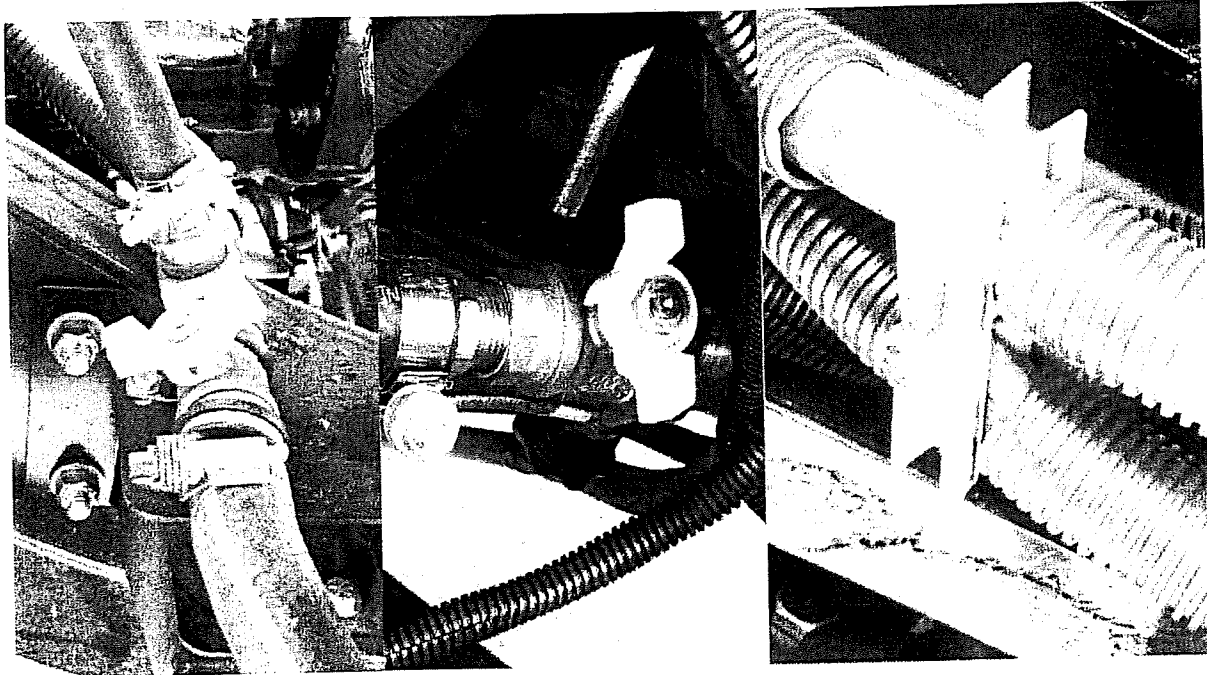
MODEL: SAF-T-LINER HDX

SUBJECT: FRONT DEFROSTER / HEATER WATER VALVE ASSEMBLY REPLACEMENT

PAGE: 1 OF 6

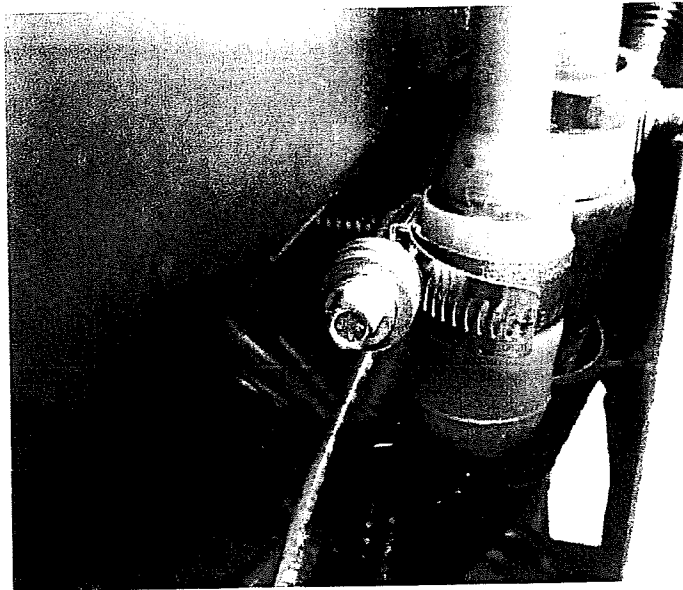
IMPORTANT: READ ENTIRE PROCEDURE BEFORE BEGINNING.

1. Chock the tires. Turn the ignition key to the "Off" position. Disconnect power at the batteries.
2. To help prevent coolant loss, close the body heater valves in the engine compartment and install hose pinch clamps at the front heater. Allow enough room between the pinch clamps and heater pipe to be able to work with the heater hoses.

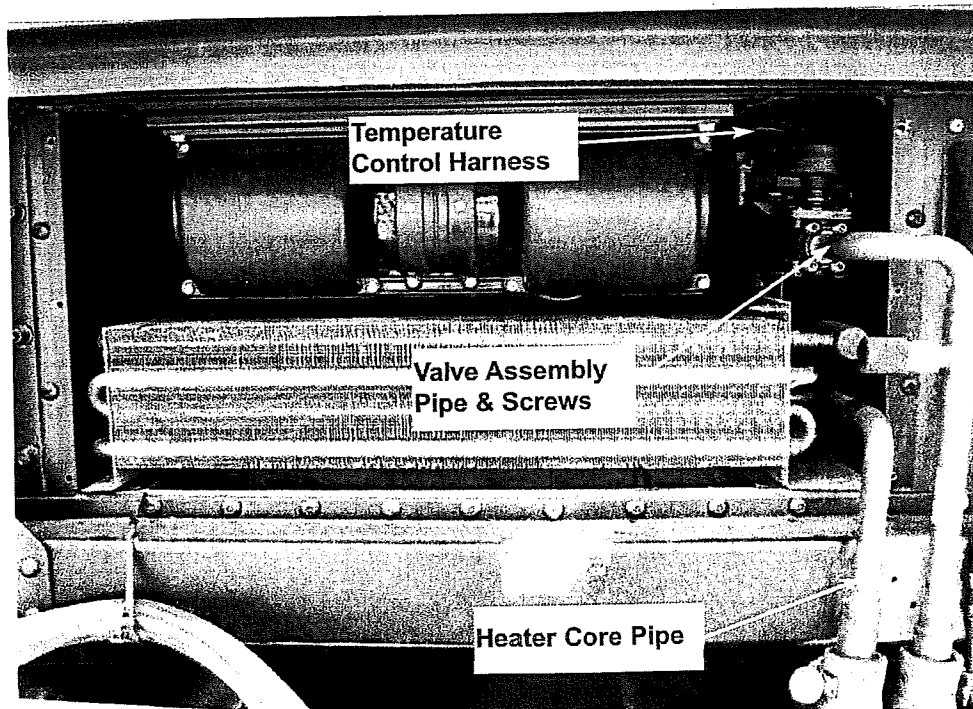


3. Lower the front HDX panel. Remove the windshield washer fill assembly (hose can remain attached). Remove the front heater filter and access covers.
4. Remove the two cushion loop clamps from the heater pipes.

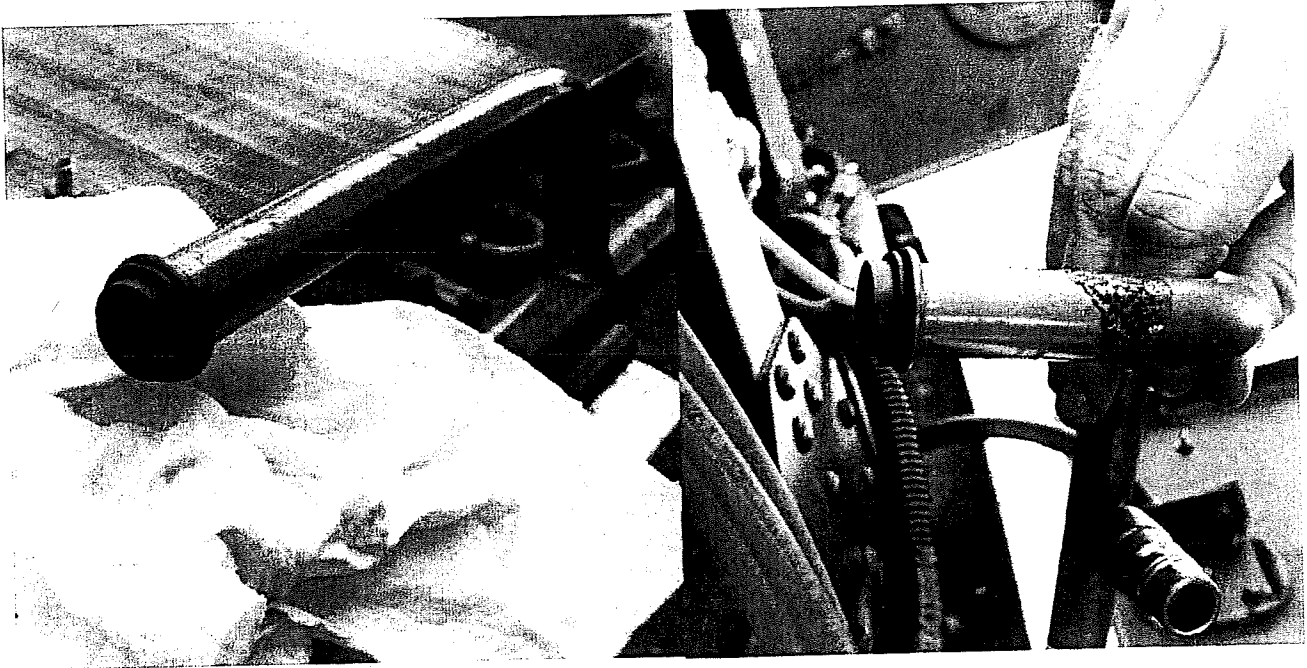
5. Remove the hose on heater core pipe on the left. A boot can be placed over the pipe end to retain coolant.



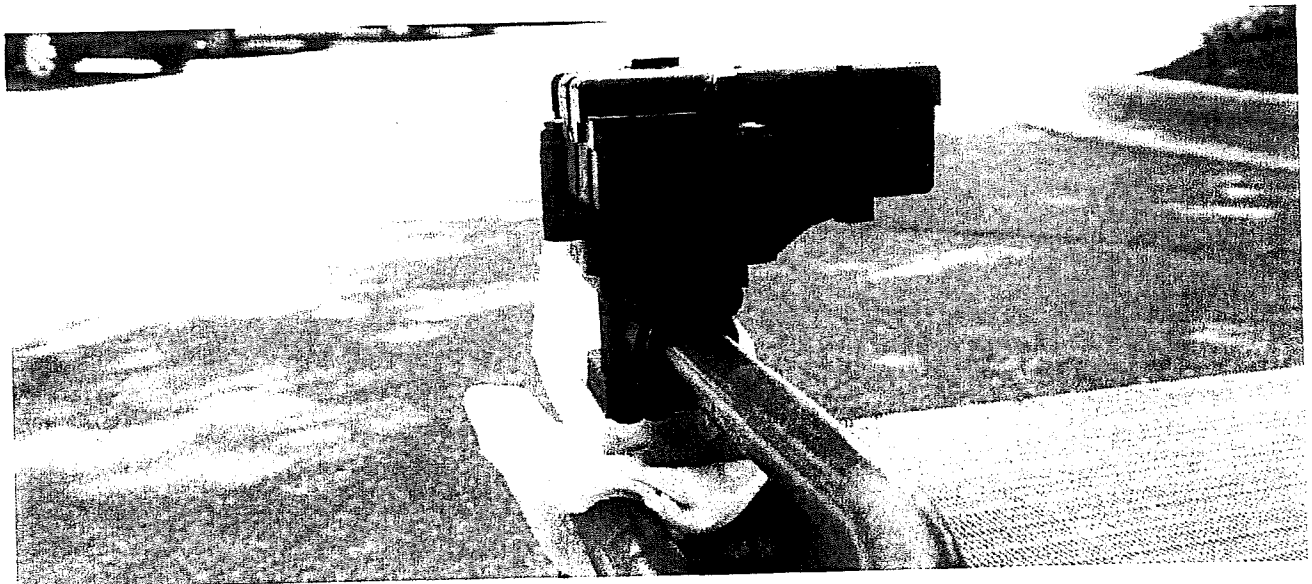
6. Remove the four (4) screws and disconnect the water valve assembly pipe on the right.
7. Disconnect the temperature control harness from the actuator or cut securing tie wrap if harness was previously disconnected.
8. Remove the heater core. **Note: the drivers side headlamp panel mounting screws can be loosened if additional clearance is needed for the heater core pipe.**



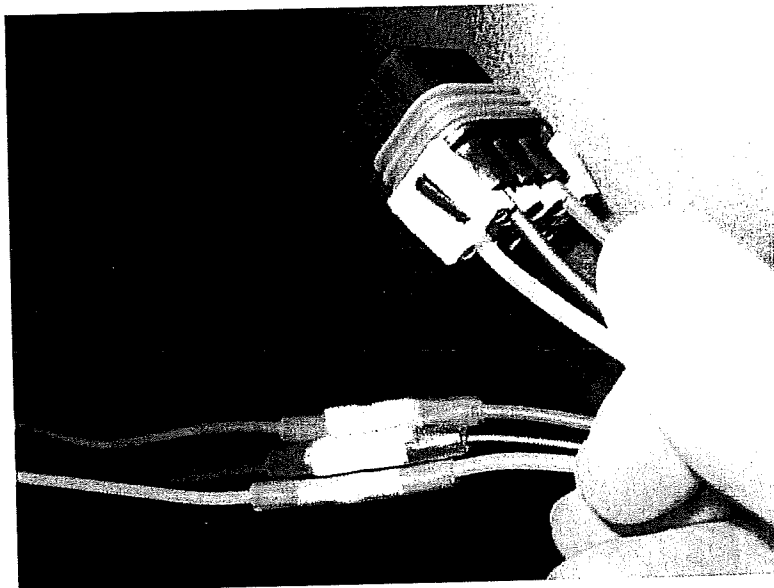
9. Remove the four (4) screws connecting the heater core pipe to the rear of the water valve assembly.
10. Remove and retain for reuse, two (2) #10 screws securing the valve assembly mounting bracket to the heater core. The water valve assembly can now be removed from the heater core and discarded.
11. Lubricate the new O-rings (BSM 589640) from the kit with coolant. Replace the O-rings on the heater core pipe and water valve pipe.



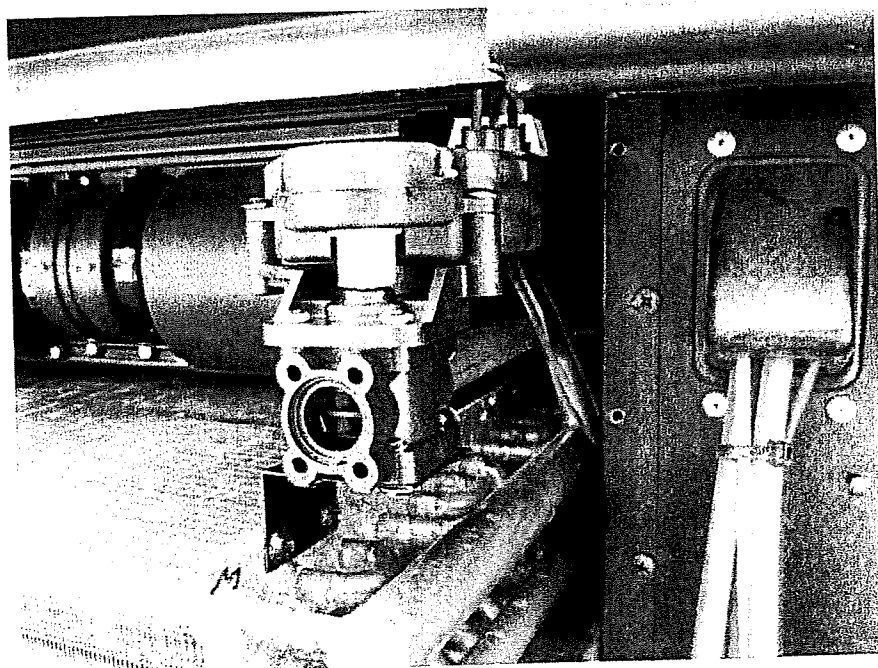
12. Install new water valve assembly (BSM 1000230886) from kit. Attach water valve mounting bracket to the heater core with the original #10 screws and leave these screws loose.
13. Connect the water valve assembly to the heater core pipe with four (4) new screws (BSM 600115) from kit.



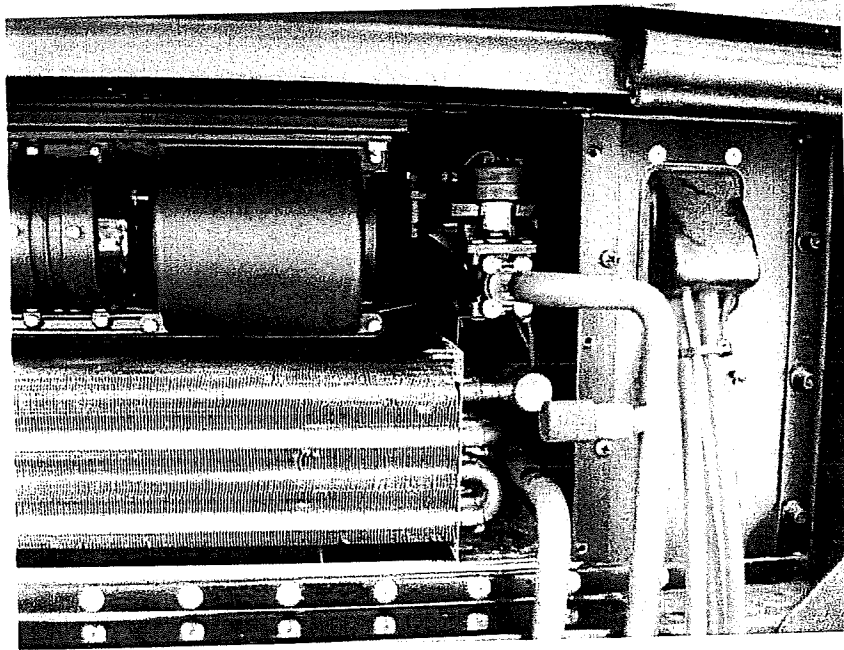
14. Tighten the #10 screws securing the water valve mounting bracket to the heater core.
15. Cut the temperature control harness two (2) inches back from the connector and strip the wire ends to ¼ inch.
16. Splice in the new harness (BSM 1000230326) to the temperature control harness matching the wire colors. Heat the splice insulation to heat shrink and seal the connections.



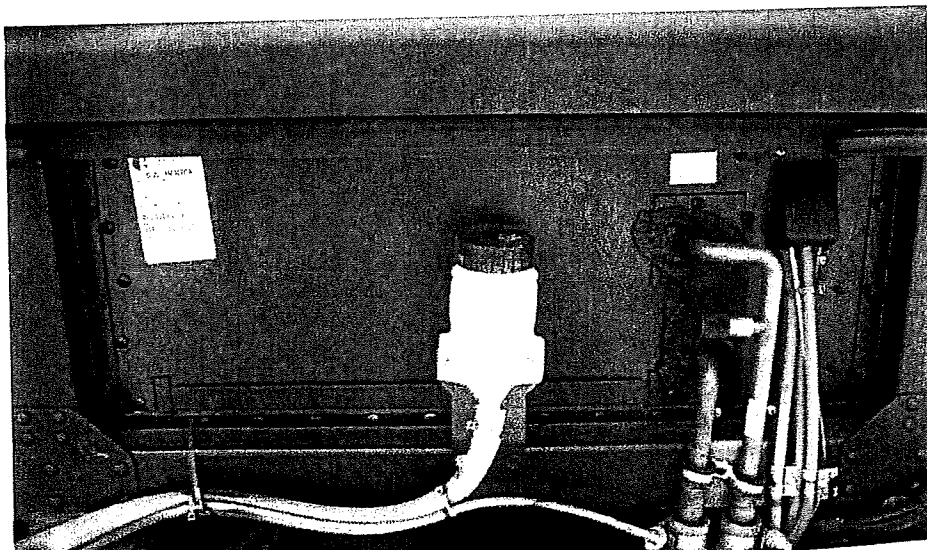
17. Reinstall the heater core and water valve assembly. Connect the harness to the actuator before fully inserting the core assembly into the heater box. Be sure to route the harness beside the heater core and away from the path of air.



18. Connect the water valve assembly pipe to the water valve assembly with four (4) new screws (BSM 600115) from kit.



19. Reconnect hose to heater core pipe.
20. Reinstall the two cushion loop clamps on the heater pipes.
21. Open the body heater valves and remove the hose clamps if installed.
22. Reconnect power at the battery.
23. Test for leaks by running engine at high idle and turning "On" the booster pump. Fill coolant reservoir as needed for coolant lost during this procedure. Be sure to use Antifreeze / Coolant that meets Freightliner spec 48-25134-050 or equivalent.



24. If drivers side headlamp panel mounting screws were loosened, retighten and torque to 19 ft-lbs.
25. Reinstall heater access panels, filter, and windshield washer fill assembly.
26. Install insulation tape (BSM 570141) from kit around the heater pipes.
27. Close the front HDX panel and remove tire chocks.

MATERIALS REQUIRED: BSM 100203816 – FIELD SERVICE KIT, HDX FRONT HEATER/DEFROSTER

<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
BSM 1000230886	1	VALVE ASSEMBLY
BSM 1000230326	1	WIRING HARNESS WITH CRIMPED SPLICES
BSM 589640	2	O-RING FOR TUBE SEAL
BSM 600115	8	SCREWS - TUBE TO VALVE CONNECTION
BSM 570141	.42FT	INSULATION TAPE

NOT CONTAINED IN KIT:

TBB 61390450 1/2GAL ANTIFREEZE / COOLANT